

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 09/943,578

In re the Application of

Masakazu FUNAHASHI et al.

Filed: August 31, 2001

MAIL STOP ISSUE FEE
Notice of Allowance:
Mailed: 11/24/04
Confirmation No.: 9438
Group Art Unit: 1774

Examiner: Camie S. Thompson

For: NOVEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE

REQUEST FOR ACKNOWLEDGMENT OF RECEIPT AND CONSIDERATION OF INFORMATION DISCLOSURE STATEMENT

MAIL STOP ISSUE FEE Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Applicants respectfully request the U.S. Patent and Trademark Office to return an initialed copy of the PTO-1449 filed October 19, 2004 with an Amendment Under 37 CFR 1.116, IDS, Petition Under 37 CFR 1.97(d) (ii), \$180 and Certification Under 37 CFR 1.97(e) acknowledgment of receipt and consideration thereof. A courtesy copy of that PTO-1449, IDS and references filed therewith, as well as a copy of applicants' representatives' postcard receipt evidencing receipt of these documents by the PTO, are enclosed.

Should there be any questions regarding this matter, the appropriate Patent and Trademark Office official is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,

Charles A. Wendel

Registration No. 24,453

PARKHURST & WENDEL, L.L.P.

CAW/ch

Attorney Docket No. OHTN:004
PARKHURST & WENDEL, L.L.P.
1421 Prince Street, Suite 210
Alexandria, Virginia 22314-2805

Telephone: (703) 739-0220

(rev. 7/96)



Atty Docket No AMENDMENT UNDER 3. CFR 1.116; ADDITIONAL CLAIN Description: FEE & \$880; IDS, 1449, ONE REF (W/ABSTRACT); PETITION UNDER 37 CFTR 1.97(d) (ii) \$180; CERTIFICATION UNDER 37 CFR 1.97(e) (# /50/53) Inventor(s) Masakazu FUNAHASHI et al. Title (new cases) ELECTROLUMINESCENCE DEVICE
FEE & \$880; IDS, 1449, ONE REF (W/ABSTRACT): PETITION UNDER 37 CFTR 1.97(d) (ii) \$180; CERTIFICATION UNDER 37 CFR 1.97(e) (# /SUF3) Inventor(s) Masakazu FUNAHASHI et al. Title (new cases) STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE
CERTIFICATION UNDER 37 CFR 1.97(e) (# 150f3) Inventor(s): Masakazu FUNAHASHI et al. Title (new cases) ELECTROLUMINESCENCE DEVICE
Inventor(s): Masakazu FUNAHASHI et al. Title (new cases) ELECTROLUMINESCENCE DEVICE
Title (new cases) VEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE M 1
Title (new cases) VEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE M 1
ELECTROLUMINESCENCE DEVICE MAI
Attorney: CAW/ch Serial No.09/943,578
Paper(s) File October 19, 2004
Date(s) Satisfied vember 3, 2004 (NOA still due)
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 09/943,578

Confirmation No.: 9438

In re Application of

Group Art Unit: 1774

Masakazu FUNAHASHI et al.

Examiner: Camie S. Thompson

Filed: August 31, 2001

For: NOVEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE

PETITION UNDER 37 C.F.R. \$1.97(d) (ii)

Commissioner of Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Applicant(s) hereby respectfully request consideration and entry of the Information Disclosure Statement filed contemporaneously herewith. The reference cited in the Information Disclosure Statement was found by one the inventors of the instant application on August 23, 2004. The certification under Rule 97(e)(1) is filed herewith, as well as a check in the amount of \$180.00, pursuant to Rule 17(i)(1).

Consideration and entry of the attached Information Disclosure Statement is respectfully requested.

Respectfully submitted,

PARKHURST & WENDEL, L.L.P

Charles A. Wendel

Registration No. 24,453

ATTORNEY DOCKET NO. OHTN:004

PARKHURST & WENDEL, L.L.P. 1421 Prince Street, Suite 210 Alexandria, VA 22314-2805 Telephone: (703) 739-0220 المجينية IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

1774

Group Art Unit:

In re application of

Masakazu FUNAHASHI et al.

Serial No.: 09/943,578

Filed: August 31, 2001 Examiner: Camie S. Thompson

For: NOVEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE

CERTIFICATION UNDER 37 C.F.R. § 1.97(e)

Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22314-2805

Sir:

[X] Each item of information contained in the Information Disclosure Statement filed herewith was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

OR

[] No item of information in the Information Disclosure Statement filed, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

No. to a

Attorney Docket No.: OHTN:004

Attachment:

Information Disclosure Statement PARKHURST & WENDEL, L.L.P. 1421 Prince Street, Suite 210

Alexandria, Virginia 22314-2805

Telephone: (703) 739-0220

Respectfully submitted,

ARKHURST, & WENDEL, L

Charles A. Wendel

Registration No. 24,453



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 09/943,578 Confirmation No.: 9438

In re Application of:

Masakazu FUNAHASHI et al. Group Art Unit: 1774

Filed: August 31, 2001 Examiner: Camie S. Thompson

For: NOVEL STYRYL COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. A copy of the reference listed on Form PTO-1449 is attached.

The above information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. See 37 C.F.R. 1.104(a) and 1.106(b) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that these references be made of record therein

and appear among the "References Cited" on any patent to issue therefrom.

Respectfully submitted,

Registration No. 24,453

Charles A. Wendel

PARKHURST & WENDEL, L.L.P.

CAW/ch

Attorney Docket No.: OHTN:004

PARKHURST & WENDEL, L.L.P. 1421 Prince Street, Suite 210 Alexandria, Virginia 22314-2805 Telephone: (703) 739-0220

(rev. 4/96)

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FORM PTO 1449 (modia	dified) PARTMENT OF COMME		ATTY DOCKET NO. OHTN:004		SERIAL NO 09/943,578	NO. 2 DEC	0 2 2004	1 H
PATENT , LIST OF REFER	AND TRADEMARK OF RENCES CITED BY APP	PFICE	APPLICANT Masakazu FUNAHASHI et al.			تلا ۽	ADEMARK OF	;
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			U.S. PATENT DOCUMENTS	rs				
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS		SUBCLASS	FILING APPR	G DATE IF COPRIATE

			FOREIGN PATENT DOCUMEN	 ENTS			L	
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		OTHE	R DOCUMENT(S) (Including Author, Title, Date,	e, Pertinent Pages,	, Etc.)			
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(11)Publication number:

07-249490

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(51)Int.CI.

H05B 33/14

C07C229/44 C09K 11/06

(21)Application number: 06-064508

(71)Applicant: RICOH CO LTD

(22)Date of filing:

08.03.1994

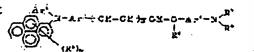
(72)Inventor: TAMOTO NOZOMI

TANAKA CHIAKI NAGAI KAZUKIYO ADACHI CHIHAYA SAKON HIROTA

(54) ELECTROLUMINESCENCE(EL) ELEMENT

(57)Abstract:

PURPOSE: To provide an EL element excellent in durability, whose performance in light emission can last for a long period of time, by using a specific olefin compound as the constituent material for an organic compound layer. CONSTITUTION: An olefin compound having a pyrenyl radical expressed by the equation given in attached illustration is used as the constituent material for a single-ply organic compound layer pinched by an anode and a cathode or at least one of multi-ply organic compound layers; in the equation R1 is a hydrogen atom, low-grade alkyl radical, or alcoxy radical, R2 is hydrogen atom, cyano radical, alcoxy carbonyl radical, or an alkyl radical or phenyl radical either substitutional or non-substitutional, R3, R4, Ar1 are alkyl radical or a carbon ring aromatic radical either substitutional or non-substitutional, and Ar2, Ar3 are two-valent aromatic radical of carbon ring



either substitutional or non-substitutional, and further (m) represents integer 1-3 while (n) represents integer 0 or 1. According to this constitution, crystallization of the organic compound is controlled, and an EL element presenting a high light emissive brightness and high durability can be obtained.

LEGAL STATUS

rejection]

[Date of request for examination]
[Date of sending the examiner's decision of

(12) 公開特許公報(A)

(11)特許出與公開番号

特開平7-249490

(43)公期日 平成7年(1995) 9月26日

(51) Int.CL.

識別配升

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技術表示箇所

H05B 33/14 C07C 229/44

C09K 11/06

Z 9280-4H

審査請求 未触求 謝求項の数3 FD (全 20 円)

			74-21
(21)出度番号	特度平6-64508	(7)) 出嶼人	000006747
		1	株式会社リコー
(22) 川瀬日	平成6年(1994)3月8日	1	東京都大口区中馬込1丁目3番6号
,		(72)発明者	田元豆豆
			東京都大田区中周込1丁目3番6号 株式
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			北京都大田区中周込1丁目3番6号 株式
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		(74)代理人	外理士 池浦 畝明 (外1名)
			最終質に絞く

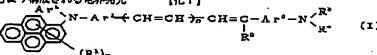
(54) 【発明の名称】 電界発光歌子

(57)【契約】

【日的】 案子の発光性能が長時間にわたって持続する 耐久性に優れた電界発光素子を得ること。

【情成】 限極および陰極とこれらの間に狭物された単 層または複数層の有機化合物層より構成される電界発光 米子において、前記単層有機化合物層または複数層の有機化合物層のうちの少なくとも一層が下記一般式(I)で表されるピレニル基を有するオレフィン化合物を構成成分とする電界発光素子。





(R¹、は水液原子、低級アルキル及またはアルコキシ 基を表わす。R²は水米原子、シアノ基、アルコキシカ ルポニル基、世換もしくは無屋換のアルキル及、関換も しくは無屋換のフェニル基を表わす。R³、R⁴、Ar¹ は恒換もしくは無屋換のアルキル及、置換もしくは無層

換の炭素限式方容族基を表わす。 Ar^2 、 Ar^3 は原換もしくは無限換の炭素原式方香灰の2 価基を表わす。 R^3 、 R^4 、 Ar^1 、 Ar^3 、 Ar^3 はそれぞれ同一でも異なっていてもよい。 $mは1\sim3$ 、nは0または1 の整数を表わす。)